



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 175314

TO: Nita M Minnifield
Location: rem/3C01/3C18
Art Unit: 1645
Tuesday, January 03, 2006
Case Serial Number: 10/613749

From: Toby Port
Location: Biotech-Chem Library
REM-1A59
Phone: 571-272-2523
toby.port@uspto.gov

Search Notes

Examiner Minnifield,

See attached results.

If you have any questions about this search feel free to contact me at any time.

Thank you for using STIC search services!

Toby Port
X22523

*Reviewed
1/06
MM*

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✓ **STIC-Biotech/ChemLib**

175314

me

From: Chan, Christina
Sent: Thursday, December 29, 2005 1:01 PM
To: Minnifield, Nita; STIC-Biotech/ChemLib
Subject: RE: rush interference sequence search
Importance: High

Please rush. Thanks Chris

Chris Chan
TC 1600 New Hire Training Coordinator and SPE 1644
(571)-272-0841
Remsen, 3E89

RECEIVED
DEC 29 2005
STIC-BIOTECH/ChemLib
(STIC)

-----Original Message-----

From: Minnifield, Nita
Sent: Wednesday, December 28, 2005 12:38 PM
To: Chan, Christina
Subject: rush interference sequence search

Christina, please approve, 2 month amdt.

STIC

10/613749

Please do an interference sequence search on the following sequences found in the above application

SEQ ID NO: 1

Please show results of the first 30 hits.

Please provide a paper copy of all results.

Searcher: _____
Searcher Phone: _____
Date Searcher Picked up: _____
Date completed: _____
Searcher Prep Time: _____
Online Time: _____

Type of Search
NA# _____ AA# _____
S/L: _____ Oligomer: _____
Encode/Transl: _____
Structure #: _____ Text: _____
Inventor: _____ Litigation: _____

Vendors and cost where applicable
STN: _____
DIALOG: _____
QUESTEL/ORBIT: _____
LEXIS/NEXIS: _____
SEQUENCE SYSTEM: _____
WWW/Internet: _____
Other (Specify): _____

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 30, 2005, 20:15:24 ; Search time 494 Seconds
(without alignments)
401.751 Million cell updates/sec

Title: US-10-613-749-1
Perfect score: 24
Sequence: 1 tcgtcgttcgttcgttcgttcgtt 24

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 9793542 seqs, 413469005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA Main:
1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq:*
2: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq:*
3: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq:*
4: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq:*
5: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:*
6: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:*
7: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq:*
8: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq:*
9: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq:*
10: /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	24	100.0	24	7	US-10-613-749-1
2	24	100.0	24	8	US-10-816-220-148
3	24	100.0	24	8	US-10-816-220-224
4	24	100.0	24	9	US-10-644-052A-36
5	24	100.0	24	9	US-10-644-052A-270
6	24	100.0	24	9	US-10-644-052A-271
7	24	100.0	619	8	US-10-363-345A-4789
8	24	100.0	619	8	US-10-363-345A-4790
9	24	100.0	619	9	US-10-363-483A-4789
10	24	100.0	619	9	US-10-363-483A-4790
11	24	100.0	734	8	US-10-363-345A-19849
12	24	100.0	734	8	US-10-363-345A-19850
13	24	100.0	734	9	US-10-363-483A-19849
14	24	100.0	734	9	US-10-363-483A-19850
15	24	100.0	6167	6	US-10-240-453-244
16	23	95.8	23	7	US-10-613-749-7
17	23	95.8	23	7	US-10-613-749-12
18	23	95.8	1291	8	US-10-363-345A-13853
19	23	95.8	1291	8	US-10-363-345A-13854
20	23	95.8	1291	9	US-10-363-483A-13853
21	23	95.8	1291	9	US-10-363-483A-13854
22	22.4	93.3	24	7	US-10-613-739-1
23	22.4	93.3	24	8	US-10-816-220-150

24	22.4	93.3	24	8	US-10-816-220-225	Sequence 225, App
25	22.4	93.3	24	9	US-10-644-052A-37	Sequence 17, Appl
26	22.4	93.3	24	9	US-10-644-052A-259	Sequence 259, App
27	22.4	93.3	24	9	US-10-644-052A-260	Sequence 260, App
28	22.4	93.3	578	8	US-10-363-345A-5395	Sequence 5395, Ap
29	22.4	93.3	578	8	US-10-363-345A-5396	Sequence 5396, Ap
30	22.4	93.3	578	9	US-10-363-483A-5395	Sequence 5395, Ap
31	22.4	93.3	578	9	US-10-363-483A-5396	Sequence 5396, Ap
32	22.4	93.3	744	8	US-10-363-345A-33711	Sequence 33711, A
33	22.4	93.3	744	8	US-10-363-345A-33712	Sequence 33712, A
34	22.4	93.3	744	9	US-10-363-483A-33711	Sequence 33711, A
35	22.4	93.3	744	9	US-10-363-483A-33712	Sequence 33712, A
36	22	91.7	22	7	US-10-613-749-8	Sequence 8, Appl1
37	22	91.7	22	7	US-10-613-749-13	Sequence 13, Appl1
38	21.4	89.2	23	7	US-10-613-739-67	Sequence 67, Appl1
39	21.4	89.2	23	7	US-10-613-739-72	Sequence 72, Appl1
40	21.4	89.2	24	7	US-10-613-739-50	Sequence 50, Appl1
41	21.4	89.2	24	7	US-10-613-739-51	Sequence 51, Appl1
42	21.4	89.2	24	7	US-10-613-739-63	Sequence 63, Appl1
43	21.4	89.2	24	7	US-10-613-739-64	Sequence 64, Appl1
44	21.4	89.2	24	7	US-10-613-739-65	Sequence 65, Appl1
45	21.4	89.2	24	7	US-10-613-739-66	Sequence 66, Appl1

ALIGNMENTS

RESULT 1
US-10-613-749-1
; Sequence 1, Application US/10613749
; Publication No. US20040067905A1
; GENERAL INFORMATION:
; APPLICANT: KRUEG, ARTHUR
; TITLE OF INVENTION: NUCLEIC ACID COMPOSITIONS FOR STIMULATING IMMUNE RESPONSES
; FILE REFERENCE: C01037.70041.US
; CURRENT APPLICATION NUMBER: US/10/613,749
; CURRENT FILING DATE: 2003-07-03
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Oligodeoxynucleotide
US-10-613-749-1

Query Match 100.0%; Score 24; DB 7; Length 24;
Best Local Similarity 100.0%; Pred. No. 1.2; 0; Indels 0; Gaps 0;
Matches 24; Conservative 0; Mismatches 0;

Qy 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24

RESULT 2
US-10-816-220-148
; Sequence 148, Application US/10816220
; Publication No. US20040235770A1
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L
; APPLICANT: McCluskie, Michael J
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID OIL-IN-WATER FORMULATIONS AND
; TITLE OF INVENTION: RELATED METHODS OF USE
; FILE REFERENCE: C1037.70039US01
; CURRENT APPLICATION NUMBER: US/10/816,220
; CURRENT FILING DATE: 2004-04-01
; PRIOR APPLICATION NUMBER: US 60/459,920
; PRIOR FILING DATE: 2003-04-02
; PRIOR APPLICATION NUMBER: US 60/461,903
; PRIOR FILING DATE: 2003-04-10
; NUMBER OF SEQ ID NOS: 434

; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 148
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide
US-10-816-220-148

Query Match 100.0%; Score 24; DB 8; Length 24;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
|||||
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24

RESULT 3

US-10-816-220-224
; Sequence 224, Application US/10816220
; Publication No. US20040235770A1
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L
; APPLICANT: McCluskie, Michael J
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID OIL-IN-WATER FORMULATIONS AND
; TITLE OF INVENTION: RELATED METHODS OF USE
; FILE REFERENCE: C1037.700390S01
; CURRENT APPLICATION NUMBER: US/10/816,220
; CURRENT FILING DATE: 2004-04-01
; PRIOR APPLICATION NUMBER: US 60/459,920
; PRIOR FILING DATE: 2003-04-02
; PRIOR APPLICATION NUMBER: US 60/461,903
; PRIOR FILING DATE: 2003-04-10
; NUMBER OF SEQ ID NOS: 434
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 224
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide
US-10-816-220-224

Query Match 100.0%; Score 24; DB 8; Length 24;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
|||||
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24

RESULT 4

US-10-644-052A-36
; Sequence 36, Application US/10644052A
; Publication No. US20050059619A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M
; APPLICANT: Samulowitz, Ulrike
; APPLICANT: Vollmer, Joerg
; APPLICANT: Uhlmann, Eugen
; APPLICANT: Jurk, Marion
; APPLICANT: Lipford, Grayson
; APPLICANT: Rankin, Robert
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS
; FILE REFERENCE: C1037.70048US00
; CURRENT APPLICATION NUMBER: US/10/644,052A
; CURRENT FILING DATE: 2003-08-19
; PRIOR APPLICATION NUMBER: US 60/404,479
; PRIOR FILING DATE: 2002-08-19
; PRIOR APPLICATION NUMBER: US 60/404,820
; PRIOR FILING DATE: 2002-08-19

; PRIOR APPLICATION NUMBER: US 60/429,701
; PRIOR FILING DATE: 2002-11-27
; PRIOR APPLICATION NUMBER: US 60/447,377
; PRIOR FILING DATE: 2003-02-14
; NUMBER OF SEQ ID NOS: 388
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 36
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligodeoxynucleotide
US-10-644-052A-36

Query Match 100.0%; Score 24; DB 9; Length 24;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
|||||
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24

RESULT 5

US-10-644-052A-270
; Sequence 270, Application US/10644052A
; Publication No. US20050059619A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M
; APPLICANT: Samulowitz, Ulrike
; APPLICANT: Vollmer, Joerg
; APPLICANT: Uhlmann, Eugen
; APPLICANT: Jurk, Marion
; APPLICANT: Lipford, Grayson
; APPLICANT: Rankin, Robert
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS
; FILE REFERENCE: C1037.70048US00
; CURRENT APPLICATION NUMBER: US/10/644,052A
; CURRENT FILING DATE: 2003-08-19
; PRIOR APPLICATION NUMBER: US 60/404,479
; PRIOR FILING DATE: 2002-08-19
; PRIOR APPLICATION NUMBER: US 60/404,820
; PRIOR FILING DATE: 2002-08-19
; PRIOR APPLICATION NUMBER: US 60/429,701
; PRIOR FILING DATE: 2002-11-27
; PRIOR APPLICATION NUMBER: US 60/447,377
; PRIOR FILING DATE: 2003-02-14
; NUMBER OF SEQ ID NOS: 388
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 270
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligodeoxynucleotide
US-10-644-052A-270

Query Match 100.0%; Score 24; DB 9; Length 24;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
|||||
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24

RESULT 6

US-10-644-052A-271
; Sequence 271, Application US/10644052A
; Publication No. US20050059619A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M
; APPLICANT: Samulowitz, Ulrike

```
; APPLICANT: Vollmer, Joerg
; APPLICANT: Uhlmann, Eugen
; APPLICANT: Jurk, Marion
; APPLICANT: Lipford, Grayson
; APPLICANT: Rankin, Robert
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS
; FILE REFERENCE: C1037.70048US00
; CURRENT APPLICATION NUMBER: US/10/644,052A
; CURRENT FILING DATE: 2003-08-19
; PRIOR APPLICATION NUMBER: US 60/404,479
; PRIOR FILING DATE: 2002-08-19
; PRIOR APPLICATION NUMBER: US 60/404,820
; PRIOR FILING DATE: 2002-08-19
; PRIOR APPLICATION NUMBER: US 60/429,701
; PRIOR FILING DATE: 2002-11-27
; PRIOR APPLICATION NUMBER: US 60/447,377
; PRIOR FILING DATE: 2003-02-14
; NUMBER OF SEQ ID NOS: 388
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 271
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligodeoxynucleotide
US-10-644-052A-271
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Query Match 100.0%; Score 24; DB 9; Length 24;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
| | | | | | | | | | | | | | | |
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24

RESULT 7
US-10-363-345A-4789
; Sequence 4789, Application US/10363345A
; Publication No. US20040234960A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Method for determining the degree of methylation of defined
; TITLE OF INVENTION: cytosines in genomic DNA in the sequence context of 5'-CpG-3
; FILE REFERENCE: E01/1227
; CURRENT APPLICATION NUMBER: US/10/363,345A
; CURRENT FILING DATE: 2003-03-03
; NUMBER OF SEQ ID NOS: 40712
; SEQ ID NO 4789
; LENGTH: 619
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chemically treated genomic DNA (Homo sapiens)
; OTHER INFORMATION: CpG-island No: 4789
US-10-363-345A-4789
```

```
Query Match 100.0%; Score 24; DB 8; Length 619;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
| | | | | | | | | | | | | | | |
Db 344 TCGTCGTTTCGTCGTTTCGTCGTT 367
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```
RESULT 8
US-10-363-345A-4790/c
; Sequence 4790, Application US/10363345A
; Publication No. US20040234960A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Method for determining the degree of methylation of defined
; TITLE OF INVENTION: cytosines in genomic DNA in the sequence context of 5'-CpG-3
; FILE REFERENCE: E01/1227
; CURRENT APPLICATION NUMBER: US/10/363,345A
; CURRENT FILING DATE: 2003-03-03
; NUMBER OF SEQ ID NOS: 40712
; SEQ ID NO 4790
; LENGTH: 619
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chemically treated genomic DNA (Homo sapiens)
; OTHER INFORMATION: CpG-island No: 4790
US-10-363-345A-4790
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```
Query Match 100.0%; Score 24; DB 8; Length 619;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
| | | | | | | | | | | | | | | |
Db 276 TCGTCGTTTCGTCGTTTCGTCGTT 253
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```
RESULT 9
US-10-363-483A-4789
; Sequence 4789, Application US/10363483A
; Publication No. US20050064401A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Diagnosis of illnesses or predisposition to certain
; TITLE OF INVENTION: illnesses
; FILE REFERENCE: 82011
; CURRENT APPLICATION NUMBER: US/10/363,483A
; CURRENT FILING DATE: 2003-03-03
; NUMBER OF SEQ ID NOS: 40712
; SEQ ID NO 4789
; LENGTH: 619
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chemically treated genomic DNA (Homo sapiens)
; OTHER INFORMATION: CpG-island No: 4789
US-10-363-483A-4789
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```
Query Match 100.0%; Score 24; DB 9; Length 619;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
| | | | | | | | | | | | | | | |
Db 344 TCGTCGTTTCGTCGTTTCGTCGTT 367
```

```
RESULT 10
US-10-363-483A-4790/c
; Sequence 4790, Application US/10363483A
; Publication No. US20050064401A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Diagnosis of illnesses or predisposition to certain
; TITLE OF INVENTION: illnesses
; FILE REFERENCE: 82011
; CURRENT APPLICATION NUMBER: US/10/363,483A
; CURRENT FILING DATE: 2003-03-03
; NUMBER OF SEQ ID NOS: 40712
```

```
; SEQ ID NO 4790
; LENGTH: 619
; TYPE: DNA
; ORGANISM: Artificial Sequence
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
; OTHER INFORMATION: CpG-island No: 4790
US-10-363-483A-4790

Query Match      100.0%; Score 24; DB 9; Length 619;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
    |||||
Db 276 TCGTCGTTTCGTCGTTTCGTCGTT 253
    |||||

RESULT 11
US-10-363-345A-19849
; Sequence 19849, Application US/10363345A
; Publication No. US20040234960A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Method for determining the degree of methylation of defined
; FILE REFERENCE: E01/1227
; CURRENT APPLICATION NUMBER: US/10/363,345A
; CURRENT FILING DATE: 2003-03-03
; NUMBER OF SEQ ID NOS: 40712
; SEQ ID NO 19849
; LENGTH: 734
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
; OTHER INFORMATION: CpG-island No: 19849
US-10-363-345A-19849

Query Match      100.0%; Score 24; DB 8; Length 734;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
    |||||
Db 220 TCGTCGTTTCGTCGTTTCGTCGTT 243
    |||||

RESULT 12
US-10-363-345A-19850/c
; Sequence 19850, Application US/10363345A
; Publication No. US20040234960A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Method for determining the degree of methylation of defined
; FILE REFERENCE: E01/1227
; CURRENT APPLICATION NUMBER: US/10/363,345A
; CURRENT FILING DATE: 2003-03-03
; NUMBER OF SEQ ID NOS: 40712
; SEQ ID NO 19850
; LENGTH: 734
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
; OTHER INFORMATION: CpG-island No: 19850
US-10-363-345A-19850
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Query Match      100.0%; Score 24; DB 8; Length 734;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
    |||||
Db 515 TCGTCGTTTCGTCGTTTCGTCGTT 492
    |||||

RESULT 13
US-10-363-483A-19849
; Sequence 19849, Application US/10363483A
; Publication No. US20050064401A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Diagnosis of illnesses or predisposition to certain
; FILE REFERENCE: 82011
; CURRENT APPLICATION NUMBER: US/10/363,483A
; CURRENT FILING DATE: 2003-03-03
; NUMBER OF SEQ ID NOS: 40712
; SEQ ID NO 19849
; LENGTH: 734
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
; OTHER INFORMATION: CpG-island No: 19849
US-10-363-483A-19849

Query Match      100.0%; Score 24; DB 9; Length 734;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
    |||||
Db 220 TCGTCGTTTCGTCGTTTCGTCGTT 243
    |||||

RESULT 14
US-10-363-483A-19850/c
; Sequence 19850, Application US/10363483A
; Publication No. US20050064401A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Diagnosis of illnesses or predisposition to certain
; FILE REFERENCE: 82011
; CURRENT APPLICATION NUMBER: US/10/363,483A
; CURRENT FILING DATE: 2003-03-03
; NUMBER OF SEQ ID NOS: 40712
; SEQ ID NO 19850
; LENGTH: 734
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
; OTHER INFORMATION: CpG-island No: 19850
US-10-363-483A-19850

Query Match      100.0%; Score 24; DB 9; Length 734;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
    |||||
Db 515 TCGTCGTTTCGTCGTTTCGTCGTT 492
    |||||
```



```
RESULT 15
US-10-240-453-244
; Sequence 244, Application US/10240453
; Publication No. US20030148326A1
; GENERAL INFORMATION:
; APPLICANT: OLEK, Alexander
; APPLICANT: PIEPENBROCK, Christian
; APPLICANT: BERLIN, Kurt
; TITLE OF INVENTION: Diagnosis of Diseases Associated with DNA
; TITLE OF INVENTION: Transcription
; TITLE OF INVENTION: by Means of Assessing the Methylation Status of Genes Associated
; TITLE OF INVENTION: With DNA Transcription
; FILE REFERENCE: 5013.1009
; CURRENT APPLICATION NUMBER: US/10/240,453
; CURRENT FILING DATE: 2002-10-02
; PRIOR APPLICATION NUMBER: PCT/EP01/03973
; PRIOR FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: DE 10019058.8
; PRIOR FILING DATE: 2000-04-06
; PRIOR APPLICATION NUMBER: DE 10019173.8
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: DE 10032529.7
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: DE 10043826.1
; PRIOR FILING DATE: 2000-09-01
; NUMBER OF SEQ ID NOS: 350
; SEQ ID NO 244
; LENGTH: 6167
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chemically treated genomic DNA (Homo sapiens)
; NAME/KEY: unsure
; LOCATION: (957, 1009, 1039)
US-10-240-453-244

Query Match          100.0%; Score 24; DB 6; Length 6167;
Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
Db 760 TCGTCGTTTCGTCGTTTCGTCGTT 783

RESULT 16
US-10-613-749-7
; Sequence 7, Application US/10613749
; Publication No. US20040067905A1
; GENERAL INFORMATION:
; APPLICANT: KRIEG, ARTHUR
; TITLE OF INVENTION: NUCLEIC ACID COMPOSITIONS FOR STIMULATING IMMUNE RESPONSES
; FILE REFERENCE: C01037.70041.US
; CURRENT APPLICATION NUMBER: US/10/613,749
; CURRENT FILING DATE: 2003-07-03
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 7
; LENGTH: 23
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Oligodeoxynucleotide
US-10-613-749-7

Query Match          95.8%; Score 23; DB 7; Length 23;
Best Local Similarity 100.0%; Pred. No. 3.1;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCGTCGTTTCGTCGTTTCGTCGTT 23
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 23

RESULT 17
US-10-613-749-12
; Sequence 12, Application US/10613749
; Publication No. US20040067905A1
; GENERAL INFORMATION:
; APPLICANT: KRIEG, ARTHUR
; TITLE OF INVENTION: NUCLEIC ACID COMPOSITIONS FOR STIMULATING IMMUNE RESPONSES
; FILE REFERENCE: C01037.70041.US
; CURRENT APPLICATION NUMBER: US/10/613,749
; CURRENT FILING DATE: 2003-07-03
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 12
; LENGTH: 23
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Oligodeoxynucleotide
US-10-613-749-12

Query Match          95.8%; Score 23; DB 7; Length 23;
Best Local Similarity 100.0%; Pred. No. 3.1;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 CGTCGTTTCGTCGTTTCGTCGTT 24
Db 1 CGTCGTTTCGTCGTTTCGTCGTT 23

RESULT 18
US-10-363-345A-13853
; Sequence 13853, Application US/10363345A
; Publication No. US20040234960A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Method for determining the degree of methylation of defined
; FILE REFERENCE: R01/1227
; CURRENT APPLICATION NUMBER: US/10/363,345A
; CURRENT FILING DATE: 2003-03-03
; NUMBER OF SEQ ID NOS: 40712
; SEQ ID NO 13853
; LENGTH: 1291
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Chemically treated genomic DNA (Homo sapiens)
; OTHER INFORMATION: CpG-Island No: 13853
; NAME/KEY: unsure
; LOCATION: (685, 688, 1146)
US-10-363-345A-13853

Query Match          95.8%; Score 23; DB 8; Length 1291;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 CGTCGTTTCGTCGTTTCGTCGTT 24
Db 786 CGTCGTTTCGTCGTTTCGTCGTT 808

RESULT 19
US-10-363-345A-13854/c
; Sequence 13854, Application US/10363345A
; Publication No. US20040234960A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
```

```
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Method for determining the degree of methylation of defined
; TITLE OF INVENTION: cytosines in genomic DNA in the sequence context of 5'-CpG-3
; FILE REFERENCE: E01/1227
; CURRENT APPLICATION NUMBER: US/10/363,345A
; CURRENT FILING DATE: 2003-03-03
; NUMBER OF SEQ ID NOS: 40712
; SEQ ID NO 13854
; LENGTH: 1291
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
; OTHER INFORMATION: CpG-island No: 13854
; NAME/KEY: unsure
; LOCATION: (146, 604, 607)
US-10-363-345A-13854

Query Match          95.8%; Score 23; DB 8; Length 1291;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2 CGTCGTTTCGTCGTTTCGTCGTT 24
      |||||||
Db      506 CGTCGTTTCGTCGTTTCGTCGTT 484

RESULT 20
US-10-363-483A-13853
; Sequence 13853, Application US/10363483A
; Publication No. US20050064401A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Diagnosis of illnesses or predisposition to certain
; TITLE OF INVENTION: illnesses
; FILE REFERENCE: 82011
; CURRENT APPLICATION NUMBER: US/10/363,483A
; CURRENT FILING DATE: 2003-03-03
; NUMBER OF SEQ ID NOS: 40712
; SEQ ID NO 13853
; LENGTH: 1291
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
; OTHER INFORMATION: CpG-island No: 13853
; NAME/KEY: unsure
; LOCATION: (685, 688, 1146)
US-10-363-483A-13853

Query Match          95.8%; Score 23; DB 9; Length 1291;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2 CGTCGTTTCGTCGTTTCGTCGTT 24
      |||||||
Db      786 CGTCGTTTCGTCGTTTCGTCGTT 808

RESULT 21
US-10-363-483A-13854/c
; Sequence 13854, Application US/10363483A
; Publication No. US20050064401A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Diagnosis of illnesses or predisposition to certain
; TITLE OF INVENTION: illnesses
```

```
; FILE REFERENCE: 82011
; CURRENT APPLICATION NUMBER: US/10/363,483A
; CURRENT FILING DATE: 2003-03-03
; NUMBER OF SEQ ID NOS: 40712
; SEQ ID NO 13854
; LENGTH: 1291
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
; OTHER INFORMATION: CpG-island No: 13854
; NAME/KEY: unsure
; LOCATION: (146, 604, 607)
US-10-363-483A-13854

Query Match          95.8%; Score 23; DB 9; Length 1291;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2 CGTCGTTTCGTCGTTTCGTCGTT 24
      |||||||
Db      506 CGTCGTTTCGTCGTTTCGTCGTT 484

RESULT 22
US-10-613-739-1
; Sequence 1, Application US/10613739
; Publication No. US20040053880A1
; GENERAL INFORMATION:
; APPLICANT: KRIEG, ARTHUR M
; TITLE OF INVENTION: NUCLEIC ACID COMPOSITIONS FOR STIMULATING IMMUNE RESPONSES
; FILE REFERENCE: C01037,70043,US
; CURRENT APPLICATION NUMBER: US/10/613,739
; CURRENT FILING DATE: 2003-07-03
; NUMBER OF SEQ ID NOS: 74
; SOFTWARE: Patent in version 3.2
; SEQ ID NO 1
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Oligodeoxynucleotide
US-10-613-739-1

Query Match          93.3%; Score 22.4; DB 7; Length 24;
Best Local Similarity 95.8%; Pred. No. 5.6;
Matches 23; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TCGTCGTTTCGTCGTTTCGTCGTT 24
      |||||||
Db      1 TCGTCGTTTCGTCGTTTCGTCGTT 24

RESULT 23
US-10-816-220-150
; Sequence 150, Application US/10816220
; Publication No. US20040235770A1
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L
; APPLICANT: McCluskie, Michael J
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID OIL-IN-WATER FORMULATIONS AND
; TITLE OF INVENTION: RELATED METHODS OF USE
; FILE REFERENCE: C1037,70039US01
; CURRENT APPLICATION NUMBER: US/10/816,220
; CURRENT FILING DATE: 2004-04-01
; PRIOR APPLICATION NUMBER: US 60/459,920
; PRIOR FILING DATE: 2003-04-02
; PRIOR APPLICATION NUMBER: US 60/461,903
; PRIOR FILING DATE: 2003-04-10
; NUMBER OF SEQ ID NOS: 434
; SOFTWARE: Patent in version 3.2
; SEQ ID NO 150
```

```
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide
US-10-816-220-150

Query Match          93.3%; Score 22.4; DB 8; Length 24;
Best Local Similarity 95.8%; Pred. No. 5.6;
Matches 23; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
    |||||
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
    |||||

RESULT 24
US-10-816-220-225
; Sequence 225, Application US/10816220
; Publication No. US20040235770A1
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID OIL-IN-WATER FORMULATIONS AND
; FILE REFERENCE: C1037.700390S01
; CURRENT APPLICATION NUMBER: US/10/816,220
; CURRENT FILING DATE: 2004-04-01
; PRIOR APPLICATION NUMBER: US 60/459,920
; PRIOR FILING DATE: 2003-04-02
; PRIOR APPLICATION NUMBER: US 60/461,903
; PRIOR FILING DATE: 2003-04-10
; NUMBER OF SEQ ID NOS: 434
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 225
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide
US-10-816-220-225

Query Match          93.3%; Score 22.4; DB 8; Length 24;
Best Local Similarity 95.8%; Pred. No. 5.6;
Matches 23; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
    |||||
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
    |||||

RESULT 25
US-10-644-052A-37
; Sequence 37, Application US/10644052A
; Publication No. US20050059619A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M
; APPLICANT: Samulowitz, Ulrike
; APPLICANT: Vollmer, Joerg
; APPLICANT: Uhlmann, Eugen
; APPLICANT: Jurk, Marion
; APPLICANT: Lipford, Grayson
; APPLICANT: Rankin, Robert
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS
; FILE REFERENCE: C1037.70048US00
; CURRENT APPLICATION NUMBER: US/10/644,052A
; CURRENT FILING DATE: 2003-08-19
; PRIOR APPLICATION NUMBER: US 60/404,479
; PRIOR FILING DATE: 2002-08-19
; PRIOR APPLICATION NUMBER: US 60/404,820
; PRIOR FILING DATE: 2002-08-19
; PRIOR APPLICATION NUMBER: US 60/429,701
; PRIOR FILING DATE: 2002-11-27
; PRIOR APPLICATION NUMBER: US 60/447,377
; PRIOR FILING DATE: 2003-02-14
; NUMBER OF SEQ ID NOS: 388
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 259
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligodeoxynucleotide
US-10-644-052A-259

Query Match          93.3%; Score 22.4; DB 9; Length 24;
Best Local Similarity 95.8%; Pred. No. 5.6;
Matches 23; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
    |||||
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
    |||||

RESULT 26
US-10-644-052A-259
; Sequence 259, Application US/10644052A
; Publication No. US20050059619A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M
; APPLICANT: Samulowitz, Ulrike
; APPLICANT: Vollmer, Joerg
; APPLICANT: Uhlmann, Eugen
; APPLICANT: Jurk, Marion
; APPLICANT: Lipford, Grayson
; APPLICANT: Rankin, Robert
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS
; FILE REFERENCE: C1037.70048US00
; CURRENT APPLICATION NUMBER: US/10/644,052A
; CURRENT FILING DATE: 2003-08-19
; PRIOR APPLICATION NUMBER: US 60/404,479
; PRIOR FILING DATE: 2002-08-19
; PRIOR APPLICATION NUMBER: US 60/404,820
; PRIOR FILING DATE: 2002-08-19
; PRIOR APPLICATION NUMBER: US 60/429,701
; PRIOR FILING DATE: 2002-11-27
; PRIOR APPLICATION NUMBER: US 60/447,377
; PRIOR FILING DATE: 2003-02-14
; NUMBER OF SEQ ID NOS: 388
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 259
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligodeoxynucleotide
US-10-644-052A-259

Query Match          93.3%; Score 22.4; DB 9; Length 24;
Best Local Similarity 95.8%; Pred. No. 5.6;
Matches 23; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
    |||||
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
    |||||

RESULT 27
US-10-644-052A-260
; Sequence 260, Application US/10644052A
; Publication No. US20050059619A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M
; APPLICANT: Samulowitz, Ulrike
; APPLICANT: Vollmer, Joerg
; APPLICANT: Uhlmann, Eugen
```

```
; APPLICANT: Jurk, Marion
; APPLICANT: Lipford, Grayson
; APPLICANT: Rankin, Robert
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS
; FILE REFERENCE: C1037.70048US00
; CURRENT APPLICATION NUMBER: US/10/644,052A
; CURRENT FILING DATE: 2003-08-19
; PRIOR APPLICATION NUMBER: US 60/404,479
; PRIOR FILING DATE: 2002-08-19
; PRIOR APPLICATION NUMBER: US 60/404,820
; PRIOR FILING DATE: 2002-08-19
; PRIOR APPLICATION NUMBER: US 60/429,701
; PRIOR FILING DATE: 2002-11-27
; PRIOR APPLICATION NUMBER: US 60/447,377
; PRIOR FILING DATE: 2003-02-14
; NUMBER OF SEQ ID NOS: 398
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 260
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligodeoxynucleotide
US-10-644-052A-260
```

```
Query Match 93.3%; Score 22.4; DB 9; Length 24;
Best Local Similarity 95.8%; Pred. No. 5.6;
Matches 23; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
|||||
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
```

```
RESULT 28
US-10-363-345A-5395
; Sequence 5395, Application US/10363345A
; Publication No. US20040234960A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Method for determining the degree of methylation of defined
; FILE REFERENCE: E01/1227
; CURRENT APPLICATION NUMBER: US/10/363,345A
; CURRENT FILING DATE: 2003-03-03
; NUMBER OF SEQ ID NOS: 40712
; SEQ ID NO 5395
; LENGTH: 578
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
; OTHER INFORMATION: CpG-island No: 5395
; NAME/KEY: unsure
; LOCATION: (73, 99, 110, 127, 132, 176, 235, 252, 262, 272, 480)
US-10-363-345A-5395
```

```
Query Match 93.3%; Score 22.4; DB 8; Length 578;
Best Local Similarity 95.8%; Pred. No. 6.3;
Matches 23; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
|||||
Db 486 TCGTCGTTTCGTCGTTTCGTCGTT 509
```

```
RESULT 29
US-10-363-345A-5396/c
; Sequence 5396, Application US/10363345A
; Publication No. US20040234960A1
```

```
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Method for determining the degree of methylation of defined
; FILE REFERENCE: E01/1227
; CURRENT APPLICATION NUMBER: US/10/363,345A
; CURRENT FILING DATE: 2003-03-03
; NUMBER OF SEQ ID NOS: 40712
; SEQ ID NO 5396
; LENGTH: 578
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
; OTHER INFORMATION: CpG-island No: 5396
; NAME/KEY: unsure
; LOCATION: (99, 307, 317, 327, 344, 403, 447, 452, 469, 480, 506)
US-10-363-345A-5396
```

```
Query Match 93.3%; Score 22.4; DB 8; Length 578;
Best Local Similarity 95.8%; Pred. No. 6.3;
Matches 23; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
|||||
Db 93 TCGTCGTTTCGTCGTTTCGTCGTT 70
```

```
RESULT 30
US-10-363-483A-5395
; Sequence 5395, Application US/10363483A
; Publication No. US20050064401A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Diagnosis of illnesses or predisposition to certain
; FILE REFERENCE: 82011
; CURRENT APPLICATION NUMBER: US/10/363,483A
; CURRENT FILING DATE: 2003-03-03
; NUMBER OF SEQ ID NOS: 40712
; SEQ ID NO 5395
; LENGTH: 578
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
; OTHER INFORMATION: CpG-island No: 5395
; NAME/KEY: unsure
; LOCATION: (73, 99, 110, 127, 132, 176, 235, 252, 262, 272, 480)
US-10-363-483A-5395
```

```
Query Match 93.3%; Score 22.4; DB 9; Length 578;
Best Local Similarity 95.8%; Pred. No. 6.3;
Matches 23; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
|||||
Db 486 TCGTCGTTTCGTCGTTTCGTCGTT 509
```

```
Search completed: December 30, 2005, 21:38:35
Job time : 496 secs
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```
; NUMBER OF SEQ ID NOS: 113
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 22
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Primer
US-10-497-591A-22

Query Match      86.7%; Score 20.8; DB 6; Length 24;
Best Local Similarity 91.7%; Pred. No. 1.2;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
    ||||| ||||| ||||| |||||
Db 1 TCGTCGTTTGTGCGTTTGTGTCGTT 24

RESULT 3
US-10-469-561-8
; Sequence 8, Application US/10469561
; Publication No. US20050260216A1
; GENERAL INFORMATION:
; APPLICANT: Claire Ashman
; APPLICANT: James Scott Crowe
; APPLICANT: Jonathan Henry Ellis
; APPLICANT: Alan Peter Lewis
; TITLE OF INVENTION: VACCINE
; FILE REFERENCE: PG4355USW
; CURRENT APPLICATION NUMBER: US/10/469,561
; CURRENT FILING DATE: 2003-08-29
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 24
; TYPE: DNA
; ORGANISM: unknown
; FEATURE:
; OTHER INFORMATION: synthetic immunostimulatory oligonucleotide
US-10-469-561-8

Query Match      86.7%; Score 20.8; DB 6; Length 24;
Best Local Similarity 91.7%; Pred. No. 1.2;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
    ||||| ||||| ||||| |||||
Db 1 TCGTCGTTTGTGCGTTTGTGTCGTT 24

RESULT 4
US-10-619-279-46
; Sequence 46, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 46

; NUMBER OF SEQ ID NOS: 113
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 22
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-279-46

Query Match      86.7%; Score 20.8; DB 6; Length 24;
Best Local Similarity 91.7%; Pred. No. 1.2;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
    ||||| ||||| ||||| |||||
Db 1 TCGTCGTTTGTGCGTTTGTGTCGTT 24

RESULT 5
US-11-127-654-238
; Sequence 238, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 238
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-238

Query Match      86.7%; Score 20.8; DB 7; Length 24;
Best Local Similarity 91.7%; Pred. No. 1.2;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
    ||||| ||||| ||||| |||||
Db 1 TCGTCGTTTGTGCGTTTGTGTCGTT 24

RESULT 6
US-11-127-654-253
; Sequence 253, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 253
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial sequence
```

; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-253

Query Match 86.7%; Score 20.8; DB 7; Length 24;
Best Local Similarity 91.7%; Pred. No. 1.2;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
|||||
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24

RESULT 7
US-11-127-654-290
; Sequence 290, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; TITLE OF INVENTION: INFLAMMATORY DISEASES
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: Patent in version 3.2
; SEQ ID NO 290
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-290

Query Match 86.7%; Score 20.8; DB 7; Length 24;
Best Local Similarity 91.7%; Pred. No. 1.2;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
|||||
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24

RESULT 8
US-11-127-654-294
; Sequence 294, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; TITLE OF INVENTION: INFLAMMATORY DISEASES
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: Patent in version 3.2
; SEQ ID NO 294
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; FEATURE:

; NAME/KEY: modified_base
; LOCATION: (2)..(2)
; OTHER INFORMATION: m5c
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (5)..(5)
; OTHER INFORMATION: m5c
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (13)..(13)
; OTHER INFORMATION: m5c
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (21)..(21)
; OTHER INFORMATION: m5c
; US-11-127-654-294

Query Match 86.7%; Score 20.8; DB 7; Length 24;
Best Local Similarity 91.7%; Pred. No. 1.2;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
|||||
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24

RESULT 9
US-11-127-654-341
; Sequence 341, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; TITLE OF INVENTION: INFLAMMATORY DISEASES
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: Patent in version 3.2
; SEQ ID NO 341
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (24)..(24)
; OTHER INFORMATION: biotinylated
US-11-127-654-341

Query Match 86.7%; Score 20.8; DB 7; Length 24;
Best Local Similarity 91.7%; Pred. No. 1.2;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
|||||
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24

RESULT 10
US-11-127-654-343
; Sequence 343, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC

```
/ TITLE OF INVENTION: INFLAMMATORY DISEASES
/ FILE REFERENCE: C1039.70060US01
/ CURRENT APPLICATION NUMBER: US/11/127,654
/ CURRENT FILING DATE: 2005-05-12
/ PRIOR APPLICATION NUMBER: US 10/112,653
/ PRIOR FILING DATE: 2002-03-29
/ PRIOR APPLICATION NUMBER: US 60/279,642
/ PRIOR FILING DATE: 2001-03-29
/ NUMBER OF SEQ ID NOS: 1040
/ SOFTWARE: PatentIn version 3.2
/ SEQ ID NO 343
/ LENGTH: 24
/ TYPE: DNA
/ ORGANISM: Artificial sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic oligonucleotide
/ NAME/KEY: modified_base
/ LOCATION: (2)..(2)
/ OTHER INFORMATION: m5c
US-11-127-654-343
```

```
Query Match 86.7%; Score 20.8; DB 7; Length 24;
Best Local Similarity 91.7%; Pred. No. 1.2;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
    ||||| ||||| ||||| |||||
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
```

```
RESULT 11
US-11-127-654-347
/ Sequence 347, Application US/11127654
/ Publication No. US20050250726A1
/ GENERAL INFORMATION:
/ APPLICANT: Krieg, Arthur M.
/ TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
/ FILE REFERENCE: C1039.70060US01
/ CURRENT APPLICATION NUMBER: US/11/127,654
/ CURRENT FILING DATE: 2005-05-12
/ PRIOR APPLICATION NUMBER: US 10/112,653
/ PRIOR FILING DATE: 2002-03-29
/ PRIOR APPLICATION NUMBER: US 60/279,642
/ PRIOR FILING DATE: 2001-03-29
/ NUMBER OF SEQ ID NOS: 1040
/ SOFTWARE: PatentIn version 3.2
/ SEQ ID NO 347
/ LENGTH: 24
/ TYPE: DNA
/ ORGANISM: Artificial sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic oligonucleotide
/ NAME/KEY: modified_base
/ LOCATION: (2)..(2)
/ OTHER INFORMATION: m5c
/ FEATURE:
/ NAME/KEY: modified_base
/ LOCATION: (5)..(5)
/ OTHER INFORMATION: m5c
/ FEATURE:
/ NAME/KEY: modified_base
/ LOCATION: (13)..(13)
/ OTHER INFORMATION: m5c
/ FEATURE:
/ NAME/KEY: modified_base
/ LOCATION: (21)..(21)
/ OTHER INFORMATION: m5c
US-11-127-654-347
```

```
Query Match 86.7%; Score 20.8; DB 7; Length 24;
Best Local Similarity 91.7%; Pred. No. 1.2;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
    ||||| ||||| ||||| |||||
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24

RESULT 12
US-11-127-654-399
/ Sequence 399, Application US/11127654
/ Publication No. US20050250726A1
/ GENERAL INFORMATION:
/ APPLICANT: Krieg, Arthur M.
/ TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
/ FILE REFERENCE: C1039.70060US01
/ CURRENT APPLICATION NUMBER: US/11/127,654
/ CURRENT FILING DATE: 2005-05-12
/ PRIOR APPLICATION NUMBER: US 10/112,653
/ PRIOR FILING DATE: 2002-03-29
/ PRIOR APPLICATION NUMBER: US 60/279,642
/ PRIOR FILING DATE: 2001-03-29
/ NUMBER OF SEQ ID NOS: 1040
/ SOFTWARE: PatentIn version 3.2
/ SEQ ID NO 399
/ LENGTH: 24
/ TYPE: DNA
/ ORGANISM: Artificial sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-399
```

```
Query Match 86.7%; Score 20.8; DB 7; Length 24;
Best Local Similarity 91.7%; Pred. No. 1.2;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
    ||||| ||||| ||||| |||||
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24

RESULT 13
US-11-127-654-859
/ Sequence 859, Application US/11127654
/ Publication No. US20050250726A1
/ GENERAL INFORMATION:
/ APPLICANT: Krieg, Arthur M.
/ TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
/ FILE REFERENCE: C1039.70060US01
/ CURRENT APPLICATION NUMBER: US/11/127,654
/ CURRENT FILING DATE: 2005-05-12
/ PRIOR APPLICATION NUMBER: US 10/112,653
/ PRIOR FILING DATE: 2002-03-29
/ PRIOR APPLICATION NUMBER: US 60/279,642
/ PRIOR FILING DATE: 2001-03-29
/ NUMBER OF SEQ ID NOS: 1040
/ SOFTWARE: PatentIn version 3.2
/ SEQ ID NO 859
/ LENGTH: 24
/ TYPE: DNA
/ ORGANISM: Artificial sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-859
```

```
Query Match 86.7%; Score 20.8; DB 7; Length 24;
Best Local Similarity 91.7%; Pred. No. 1.2;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```


Qy 1 TCGTCGTTTCGTCTGTTTCGTCTGTT 24
|||
nb 1 TCGTCGTTTCGTCTGTTTCGTCTGTT 24

US-11-107-364-26
; Sequence 26, Application US/11107364
; Publication No. US20050271686A1
; GENERAL INFORMATION:
; APPLICANT: KANG, CHIL-YONG
; APPLICANT: LI, YAN
; TITLE OF INVENTION: HIV VACCINE

```
; FILE REFERENCE: UWA-011.02
; CURRENT APPLICATION NUMBER: US/11/107,364
; CURRENT FILING DATE: 2005-04-15
; PRIOR APPLICATION NUMBER: 09/762,294
; PRIOR FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: PCT/CA99/00746
; PRIOR FILING DATE: 1999-08-12
; PRIOR APPLICATION NUMBER: 60/096,235
; PRIOR FILING DATE: 1998-08-12
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 26
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
US-11-107-364-26
```

```
Query Match      86.7%; Score 20.8; DB 7; Length 24;
Best Local Similarity 91.7%; Pred. No. 1.2;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
||||| ||||| ||||| |||||
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
```

```
RESULT 19
US-11-019-955-3
; Sequence 3, Application US/11019955
; Publication No. US20050282763A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; TITLE OF INVENTION: METHODS OF TREATING BLADDER DISORDERS
; FILE REFERENCE: 08191-022001
; CURRENT APPLICATION NUMBER: US/11/019,955
; CURRENT FILING DATE: 2004-12-22
; PRIOR APPLICATION NUMBER: US/10/074,956
; PRIOR FILING DATE: 2002-02-12
; PRIOR APPLICATION NUMBER: 60/268,175
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-019-955-3
```

```
Query Match      86.7%; Score 20.8; DB 7; Length 24;
Best Local Similarity 91.7%; Pred. No. 1.2;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
||||| ||||| ||||| |||||
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
```

```
RESULT 20
US-11-127-654-862
; Sequence 862, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
```

```
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 862
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-862
```

```
Query Match      86.7%; Score 20.8; DB 7; Length 25;
Best Local Similarity 91.7%; Pred. No. 1.2;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
||||| ||||| ||||| |||||
Db 2 TCGTCGTTTCGTCGTTTCGTCGTT 25
```

```
RESULT 21
US-11-127-654-295
; Sequence 295, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 295
; LENGTH: 29
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: (1)..(1)
; OTHER INFORMATION: biotinylated
US-11-127-654-295
```

```
Query Match      86.7%; Score 20.8; DB 7; Length 29;
Best Local Similarity 91.7%; Pred. No. 1.3;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
||||| ||||| ||||| |||||
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
```

```
RESULT 22
US-11-127-654-411
; Sequence 411, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
```

; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 411
; LENGTH: 32
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-411

Query Match 86.7%; Score 20.8; DB 7; Length 32;
Best Local Similarity 91.7%; Pred. No. 1.3;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
| | | | | | | | | | | | | | | | | |
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24

RESULT 23
US-10-619-279-123
; Sequence 123, Application US/10619279
; Publication No. US2005026705/A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 123
; LENGTH: 23
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-619-279-123

Query Match 82.5%; Score 19.8; DB 6; Length 23;
Best Local Similarity 91.3%; Pred. No. 3.3;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCGTCGTTTCGTCGTTTCGTCGTT 23
| | | | | | | | | | | | | | | | | |
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 23

RESULT 24
US-11-127-654-398
; Sequence 398, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653

; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 398
; LENGTH: 23
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-398

Query Match 82.5%; Score 19.8; DB 7; Length 23;
Best Local Similarity 91.3%; Pred. No. 3.3;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCGTCGTTTCGTCGTTTCGTCGTT 23
| | | | | | | | | | | | | | | | | |
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 23

RESULT 25
US-11-127-654-332
; Sequence 332, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 332
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-332

Query Match 80.0%; Score 19.2; DB 7; Length 24;
Best Local Similarity 87.5%; Pred. No. 5.9;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
| | | | | | | | | | | | | | | | | |
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24

RESULT 26
US-10-873-528-322
; Sequence 322, Application US/10873528
; Publication No. US20050276814A1
; GENERAL INFORMATION:
; APPLICANT: Microbial Technics Limited
; APPLICANT: Gilbert, Christophe FG
; APPLICANT: Hansbro, Philip M
; TITLE OF INVENTION: Proteins
; FILE REFERENCE: PWC/P21129WO
; CURRENT APPLICATION NUMBER: US/10/873,528
; CURRENT FILING DATE: 2004-06-23
; PRIOR APPLICATION NUMBER: US/09/769,787
; PRIOR FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: GB 9816337.1
; PRIOR FILING DATE: 1998-03-27

```
/ PRIOR APPLICATION NUMBER: US 60/125164
/ PRIOR FILING DATE: 1999-03-19
/ NUMBER OF SEQ ID NOS: 388
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 322
/ LENGTH: 1350
/ TYPE: DNA
/ ORGANISM: Streptococcus pneumoniae
US-10-873-528-322

Query Match      80.0%; Score 19.2; DB 6; Length 1350;
Best Local Similarity 87.5%; Pred. No. 7.8;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
    |||||
Db 1266 TCTTCGTTTCTTCGTTTCGTCGTT 1289

RESULT 27
US-11-127-654-333
/ Sequence 333, Application US/11127654
/ Publication No. US20050250726A1
/ GENERAL INFORMATION:
/ APPLICANT: Krieg, Daniel J.
/ TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
/ FILE REFERENCE: C1039.70060US01
/ CURRENT APPLICATION NUMBER: US/11/127,654
/ CURRENT FILING DATE: 2005-05-12
/ PRIOR APPLICATION NUMBER: US 10/112,653
/ PRIOR FILING DATE: 2002-03-29
/ PRIOR APPLICATION NUMBER: US 60/279,642
/ PRIOR FILING DATE: 2001-03-29
/ NUMBER OF SEQ ID NOS: 1040
/ SOFTWARE: PatentIn version 3.2
/ SEQ ID NO 333
/ LENGTH: 24
/ TYPE: DNA
/ ORGANISM: Artificial sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-333

Query Match      73.3%; Score 17.6; DB 7; Length 24;
Best Local Similarity 83.3%; Pred. No. 27;
Matches 20; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
    |||||
Db 1 TCGTCGTTTTCGACGTTTTCGCGTT 24

RESULT 28
US-11-127-654-854
/ Sequence 854, Application US/11127654
/ Publication No. US20050250726A1
/ GENERAL INFORMATION:
/ APPLICANT: Krieg, Arthur M.
/ TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
/ FILE REFERENCE: C1039.70060US01
/ CURRENT APPLICATION NUMBER: US/11/127,654
/ CURRENT FILING DATE: 2005-05-12
/ PRIOR APPLICATION NUMBER: US 10/112,653
/ PRIOR FILING DATE: 2002-03-29
/ PRIOR APPLICATION NUMBER: US 60/279,642
/ PRIOR FILING DATE: 2001-03-29
/ NUMBER OF SEQ ID NOS: 1040
/ SOFTWARE: PatentIn version 3.2
/ SEQ ID NO 854

/ PRIOR APPLICATION NUMBER: US 60/125164
/ PRIOR FILING DATE: 1999-03-19
/ NUMBER OF SEQ ID NOS: 388
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 322
/ LENGTH: 1350
/ TYPE: DNA
/ ORGANISM: Streptococcus pneumoniae
US-10-873-528-322

Query Match      80.0%; Score 19.2; DB 6; Length 1350;
Best Local Similarity 87.5%; Pred. No. 7.8;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
    |||||
Db 1266 TCTTCGTTTCTTCGTTTCGTCGTT 1289

RESULT 27
US-11-127-654-333
/ Sequence 333, Application US/11127654
/ Publication No. US20050250726A1
/ GENERAL INFORMATION:
/ APPLICANT: Krieg, Daniel J.
/ TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
/ FILE REFERENCE: C1039.70060US01
/ CURRENT APPLICATION NUMBER: US/11/127,654
/ CURRENT FILING DATE: 2005-05-12
/ PRIOR APPLICATION NUMBER: US 10/112,653
/ PRIOR FILING DATE: 2002-03-29
/ PRIOR APPLICATION NUMBER: US 60/279,642
/ PRIOR FILING DATE: 2001-03-29
/ NUMBER OF SEQ ID NOS: 1040
/ SOFTWARE: PatentIn version 3.2
/ SEQ ID NO 333
/ LENGTH: 24
/ TYPE: DNA
/ ORGANISM: Artificial sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-333

Query Match      73.3%; Score 17.6; DB 7; Length 24;
Best Local Similarity 83.3%; Pred. No. 27;
Matches 20; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
    |||||
Db 1 TCGTCGTTTTCGACGTTTTCGCGTT 24

RESULT 28
US-11-127-654-854
/ Sequence 854, Application US/11127654
/ Publication No. US20050250726A1
/ GENERAL INFORMATION:
/ APPLICANT: Krieg, Arthur M.
/ TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
/ FILE REFERENCE: C1039.70060US01
/ CURRENT APPLICATION NUMBER: US/11/127,654
/ CURRENT FILING DATE: 2005-05-12
/ PRIOR APPLICATION NUMBER: US 10/112,653
/ PRIOR FILING DATE: 2002-03-29
/ PRIOR APPLICATION NUMBER: US 60/279,642
/ PRIOR FILING DATE: 2001-03-29
/ NUMBER OF SEQ ID NOS: 1040
/ SOFTWARE: PatentIn version 3.2
/ SEQ ID NO 854

/ LENGTH: 24
/ TYPE: DNA
/ ORGANISM: Artificial sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-854

Query Match      73.3%; Score 17.6; DB 7; Length 24;
Best Local Similarity 83.3%; Pred. No. 27;
Matches 20; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
    |||||
Db 1 TCGTCGTTTTCGACGTTTTCGCGTT 24

RESULT 29
US-10-240-708-4
/ Sequence 4, Application US/10240708
/ Publication No. US20050282157A1
/ GENERAL INFORMATION:
/ APPLICANT: OLEK, Alexander
/ APPLICANT: PIEPENBROCK, Christian
/ APPLICANT: BERLIN, Kurt
/ TITLE OF INVENTION: Diagnosis of Diseases Associated with DNA Replication
/ FILE REFERENCE: 5013.1012
/ CURRENT APPLICATION NUMBER: US/10/240,708
/ CURRENT FILING DATE: 2002-10-03
/ PRIOR APPLICATION NUMBER: PCT/EP01/03971
/ PRIOR FILING DATE: 2001-04-06
/ PRIOR APPLICATION NUMBER: DE 10019058.8
/ PRIOR FILING DATE: 2000-04-06
/ PRIOR APPLICATION NUMBER: DE 10019173.8
/ PRIOR FILING DATE: 2000-04-07
/ PRIOR APPLICATION NUMBER: DE 10032529.7
/ PRIOR FILING DATE: 2000-06-30
/ PRIOR APPLICATION NUMBER: DE 10043826.1
/ PRIOR FILING DATE: 2000-09-01
/ NUMBER OF SEQ ID NOS: 98
/ SEQ ID NO 4
/ LENGTH: 10619
/ TYPE: DNA
/ ORGANISM: Artificial sequence
/ FEATURE:
/ OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-10-240-708-4

Query Match      72.5%; Score 17.4; DB 6; Length 10619;
Best Local Similarity 94.7%; Pred. No. 51;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCG 19
    |||||
Db 5616 TTGTCGTTTCGTCGTTTCG 5634

RESULT 30
US-10-497-591A-26
/ Sequence 26, Application US/10497591A
/ Publication No. US20050250716A1
/ GENERAL INFORMATION:
/ APPLICANT: SCHMIDT, WALTER
/ APPLICANT: SCHELLACK, CAROLA
/ APPLICANT: EGYED, ALENA
/ APPLICANT: LINGNAU, KAREN
/ TITLE OF INVENTION: IMMUNOSTIMULATORY OLIGODEOXYNUCLEOTIDES
/ FILE REFERENCE: SONN.045US
/ CURRENT APPLICATION NUMBER: US/10/497,591A
/ CURRENT FILING DATE: 2004-06-03
/ PRIOR APPLICATION NUMBER: PCT/EP02/13791
/ PRIOR FILING DATE: 2002-12-05
/ PRIOR APPLICATION NUMBER: A 1924/2001
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; PRIOR FILING DATE: 2001-12-07
; NUMBER OF SEQ ID NOS: 113
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 26
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Primer
; FEATURE:
; NAME/KEY: modified base
; LOCATION: (3)..(22)
; OTHER INFORMATION: n = inosine or uracil
;
US-10-497-591A-26

Query Match      70.0%; Score 16.8; DB 6; Length 24;
Best Local Similarity 75.0%; Pred. No. 60;
Matches 18; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY      1 TCGTCGTTTCGTCGTTTCGTCGTT 24
      |||||
Db      1 TCNTCMTTTCGTCGTTTCGTCGTT 24
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Search completed: December 30, 2005, 21:41:50
Job time : 190 secs

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OM nucleic - nucleic search, using sw model

Run on: December 30, 2005, 18:56:58 ; Search time 95 Seconds
(without alignments)
449.068 Million cell updates/sec

Title: US-10-613-749-1
Perfect score: 24 / 100
Sequence: 1 tcgtcgttcgttcgttcgttcgtt 24

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA:
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2: /cgn2_6/ptodata/1/ina/5 COMB.seq.*
3: /cgn2_6/ptodata/1/ina/6A COMB.seq.*
4: /cgn2_6/ptodata/1/ina/6B COMB.seq.*
5: /cgn2_6/ptodata/1/ina/H COMB.seq.*
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7: /cgn2_6/ptodata/1/ina/PP COMB.seq.*
8: /cgn2_6/ptodata/1/ina/RE COMB.seq.*
9: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20.8	86.7	24	3	US-09-030-701-6
2	20.8	86.7	24	3	US-09-286-098-90
3	20.8	86.7	24	3	US-08-960-774-46
4	20.8	86.7	24	3	US-09-082-649B-3
5	20.8	86.7	24	3	US-09-082-649B-66
6	20.8	86.7	24	3	US-09-325-193A-77
7	20.8	86.7	24	3	US-09-191-170-84
8	20.8	86.7	24	3	US-09-191-170-95
9	20.8	86.7	24	3	US-09-690-921-4
10	20.8	86.7	24	3	US-09-337-619-46
11	20.8	86.7	24	3	US-09-965-101-3
12	20.8	86.7	24	3	US-09-965-101-66
13	20.8	86.7	24	3	US-10-057-531A-8
14	20.8	86.7	24	3	US-09-495-947-5
15	20.8	86.7	24	3	US-09-495-947-7
16	20.8	86.7	24	3	US-09-495-947-17
17	20.8	86.7	24	3	US-09-954-987B-112
18	20.8	86.7	24	3	US-09-954-987B-128
19	20.8	86.7	24	3	US-09-672-126B-2
20	20.8	86.7	24	3	US-09-672-126B-108
21	20.8	86.7	24	3	US-09-672-126B-147
22	20.8	86.7	52	3	US-09-082-649B-15
23	20.8	86.7	52	3	US-09-965-101-15
24	19.8	82.5	23	3	US-09-337-619-123

25	19.2	80.0	1350	3	US-09-769-787-322	Sequence 322, App
26	19.2	80.0	25002	3	US-08-961-527-48	Sequence 48, Appl
27	17.6	73.3	286	3	US-09-270-767-27314	Sequence 27314, A
28	17.6	73.3	785	3	US-09-270-767-8131	Sequence 8131, Ap
29	17.6	73.3	785	3	US-09-270-767-23403	Sequence 23403, A
30	17.6	73.3	894	3	US-09-270-767-11695	Sequence 11695, A
31	17.2	71.7	715	3	US-09-533-559-6071	Sequence 6071, Ap
32	17.2	71.7	2170	3	US-09-614-034-190	Sequence 190, App
33	16.6	69.2	36	2	US-08-585-684B-1123	Sequence 1123, Ap
34	16.6	69.2	36	3	US-09-038-073-1123	Sequence 1123, Ap
35	16.6	69.2	102	2	US-08-324-977-25	Sequence 25, Appl
36	16.6	69.2	102	2	US-08-384-616-25	Sequence 25, Appl
37	16.6	69.2	102	2	US-08-904-686A-25	Sequence 25, Appl
38	16.6	69.2	102	3	US-09-315-850-25	Sequence 25, Appl
39	16.6	69.2	591	3	US-09-010-809-6	Sequence 6, Appl
40	16.6	69.2	594	2	US-08-324-977-21	Sequence 21, Appl
41	16.6	69.2	594	2	US-08-384-616-21	Sequence 21, Appl
42	16.6	69.2	594	2	US-08-904-686A-21	Sequence 21, Appl
43	16.6	69.2	594	3	US-09-315-850-21	Sequence 21, Appl
44	16.6	69.2	751	3	US-09-010-809-4	Sequence 4, Appl
45	16.6	69.2	1167	2	US-08-324-977-9	Sequence 9, Appl

ALIGNMENTS

RESULT 1
US-09-030-701-6
; Sequence 6, Application US/09030701B
; Patent No. 6214806
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: USE OF NUCLEIC ACIDS CONTAINING
; TITLE OF INVENTION: UNMETHYLATED CPG DINUCLEOTIDE IN THE TREATMENT OF
; TITLE OF INVENTION: LPS-ASSOCIATED DISORDERS
; FILE REFERENCE: C1039/7011
; CURRENT APPLICATION NUMBER: US/09/030,701B
; PRIOR FILING DATE: 1997-02-25
; PRIOR FILING DATE: 1997-02-28
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-030-701-6

Query Match 86.7%; Score 20.8; DB 3; Length 24;
Best Local Similarity 91.7%; Pred. No. 3.1;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Cy 1 TCCTCGTTTCGTCGTTTCGTCGTT 24
Db 1 TCCTCGTTTCGTCGTTTCGTCGTT 24

RESULT 2

US-09-286-098-90
; Sequence 90, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; TITLE OF INVENTION: Cytokines
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02

EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 90
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-286-098-90

Query Match 86.7%; Score 20.8; DB 3; Length 24;
Best Local Similarity 91.7%; Pred. No. 3.1;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24

RESULT 3
US-08-960-774-46
; Sequence 46, Application US/08960774
; Patent No. 6239116
; GENERAL INFORMATION:
; APPLICANT: Krieg et al.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/960,774
; FILING DATE: 30-October-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
; FILING DATE: October 30, 1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 08918/012001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 46:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
US-08-960-774-46

Query Match 86.7%; Score 20.8; DB 3; Length 24;
Best Local Similarity 91.7%; Pred. No. 3.1;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24

RESULT 4
US-09-082-649B-3
; Sequence 3, Application US/09082649B
; Patent No. 6339068
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Wu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; FILE REFERENCE: C1039/7009
; CURRENT APPLICATION NUMBER: US/09/082,649B
; CURRENT FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Has a phosphorothioate backbone.
US-09-082-649B-3

Query Match 86.7%; Score 20.8; DB 3; Length 24;
Best Local Similarity 91.7%; Pred. No. 3.1;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24

RESULT 5
US-09-082-649B-66
; Sequence 66, Application US/09082649B
; Patent No. 6339068
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Wu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; FILE REFERENCE: C1039/7009
; CURRENT APPLICATION NUMBER: US/09/082,649B
; CURRENT FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 66
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Backbone is a phosphorothioate--phosphodiester
; OTHER INFORMATION: chimera.
US-09-082-649B-66


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Query Match      86.7%; Score 20.8; DB 3; Length 24;
Best Local Similarity 91.7%; Pred. No. 3.1;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
    |||||
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24

RESULT 6
US-09-325-193A-77
; Sequence 77, Application US/09325193A
; Patent No. 6406705
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; TITLE OF INVENTION: Unmethylated CpG Dinucleotide as an Adjuvant
; FILE REFERENCE: C1039/7025/HCL
; CURRENT APPLICATION NUMBER: US/09/325,193A
; CURRENT FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 77
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-325-193A-77

Query Match      86.7%; Score 20.8; DB 3; Length 24;
Best Local Similarity 91.7%; Pred. No. 3.1;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
    |||||
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24

RESULT 7
US-09-191-170-84
; Sequence 84, Application US/09191170
; Patent No. 6429199
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; TITLE OF INVENTION: for Activating Dendritic Cells
; FILE REFERENCE: C1039/7017
; CURRENT APPLICATION NUMBER: US/09/191,170
; CURRENT FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 84
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-191-170-84

Query Match      86.7%; Score 20.8; DB 3; Length 24;
Best Local Similarity 91.7%; Pred. No. 3.1;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
    |||||
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24

RESULT 8
US-09-191-170-95
; Sequence 95, Application US/09191170
; Patent No. 6429199
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; TITLE OF INVENTION: for Activating Dendritic Cells
; FILE REFERENCE: C1039/7017
; CURRENT APPLICATION NUMBER: US/09/191,170
; CURRENT FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 95
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-191-170-95

Query Match      86.7%; Score 20.8; DB 3; Length 24;
Best Local Similarity 91.7%; Pred. No. 3.1;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
    |||||
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24

RESULT 9
US-09-690-921-4
; Sequence 4, Application US/09690921
; Patent No. 6544518
; GENERAL INFORMATION:
```

```
; APPLICANT: Friede, Martin
; APPLICANT: Gerard, Catherine
; APPLICANT: Hermand, Philippe
; TITLE OF INVENTION: Vaccines
; FILE REFERENCE: B45181-1
; CURRENT APPLICATION NUMBER: US/09/690,921
; CURRENT FILING DATE: 2000-10-18
; PRIOR APPLICATION NUMBER: PCT/EP00/02920
; PRIOR FILING DATE: 2000-04-04
; PRIOR APPLICATION NUMBER: 09/301,829
; PRIOR FILING DATE: 1999-04-29
; PRIOR APPLICATION NUMBER: 9908885.8
; PRIOR FILING DATE: 1999-04-19
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Human
US-09-690-921-4
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Query Match 86.7%; Score 20.8; DB 3; Length 24;
Best Local Similarity 91.7%; Pred. No. 3.1;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
|||||
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
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RESULT 10
US-09-337-619-46
; Sequence 46, Application US/09337619
; Patent No. 6653292
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Methods of Treating Cancer Using
; FILE REFERENCE: C1039/7021/HCL
; CURRENT APPLICATION NUMBER: US/09/337,619
; CURRENT FILING DATE: 1999-06-21
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 46
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-337-619-46
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Query Match 86.7%; Score 20.8; DB 3; Length 24;
Best Local Similarity 91.7%; Pred. No. 3.1;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
|||||
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
```

```
RESULT 11
US-09-965-101-3
; Sequence 3, Application US/09965101
; Patent No. 6821957
; GENERAL INFORMATION:
```

```
; APPLICANT: Davis, Heather L.
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Wu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; TITLE OF INVENTION: Therapeutic Protocols
; FILE REFERENCE: C1039/7057 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/965,101
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: US 09/082,649
; PRIOR FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 84
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Has a phosphorothioate backbone.
US-09-965-101-3
```

```
Query Match 86.7%; Score 20.8; DB 3; Length 24;
Best Local Similarity 91.7%; Pred. No. 3.1;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
|||||
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
```

```
RESULT 12
US-09-965-101-66
; Sequence 66, Application US/09965101
; Patent No. 6821957
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Wu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; TITLE OF INVENTION: Therapeutic Protocols
; FILE REFERENCE: C1039/7057 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/965,101
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: US 09/082,649
; PRIOR FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 84
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 66
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Backbone is a phosphorothioate--phosphodiester
; OTHER INFORMATION: chimera.
US-09-965-101-66
```

```
Query Match 86.7%; Score 20.8; DB 3; Length 24;
Best Local Similarity 91.7%; Pred. No. 3.1;
```

Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24

RESULT 13

US-10-057-531A-8
; Sequence 8, Application US/10057531A
; Patent No. 685322
; GENERAL INFORMATION:
; APPLICANT: Lyon, Jeffrey A.
; TITLE OF INVENTION: Isolation and Purification of P. falciparum Merozoite
; FILE REFERENCE: 003/241/SAP
; CURRENT APPLICATION NUMBER: US/10/057,531A
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: US 60/264,535
; PRIOR FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: US 60/347,564
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: Apple Macintosh Microsoft Word 6.0
; SEQ ID NO 8
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: CpG oligonucleotide
US-10-057-531A-8

Query Match 86.7%; Score 20.8; DB 3; Length 24;
Best Local Similarity 91.7%; Pred. No. 3.1;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24

RESULT 14

US-09-495-947-5
; Sequence 5, Application US/09495947
; Patent No. 6887464
; GENERAL INFORMATION:
; APPLICANT: Coleman, Timothy P.
; TITLE OF INVENTION: Advanced Antigen Presentation Platform
; FILE REFERENCE: 05270001ta
; CURRENT APPLICATION NUMBER: US/09/495,947
; CURRENT FILING DATE: 2000-02-02
; PRIOR APPLICATION NUMBER: US 60/118,526
; PRIOR FILING DATE: 1999-02-02
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:
; OTHER INFORMATION: Immunostimulating oligonucleotides
US-09-495-947-5

Query Match 86.7%; Score 20.8; DB 3; Length 24;
Best Local Similarity 91.7%; Pred. No. 3.1;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24

RESULT 15
US-09-495-947-7
; Sequence 7, Application US/09495947
; Patent No. 6887464
; GENERAL INFORMATION:
; APPLICANT: Coleman, Timothy P.
; TITLE OF INVENTION: Advanced Antigen Presentation Platform
; FILE REFERENCE: 05270001ta
; CURRENT APPLICATION NUMBER: US/09/495,947
; CURRENT FILING DATE: 2000-02-02
; PRIOR APPLICATION NUMBER: US 60/118,526
; PRIOR FILING DATE: 1999-02-02
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:
; OTHER INFORMATION: Immunostimulating oligonucleotides
US-09-495-947-7

Query Match 86.7%; Score 20.8; DB 3; Length 24;
Best Local Similarity 91.7%; Pred. No. 3.1;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24

RESULT 16

US-09-495-947-17
; Sequence 17, Application US/09495947
; Patent No. 6887464
; GENERAL INFORMATION:
; APPLICANT: Coleman, Timothy P.
; TITLE OF INVENTION: Advanced Antigen Presentation Platform
; FILE REFERENCE: 05270001ta
; CURRENT APPLICATION NUMBER: US/09/495,947
; CURRENT FILING DATE: 2000-02-02
; PRIOR APPLICATION NUMBER: US 60/118,526
; PRIOR FILING DATE: 1999-02-02
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 17
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:
; OTHER INFORMATION: Immunostimulating oligonucleotides
US-09-495-947-17

Query Match 86.7%; Score 20.8; DB 3; Length 24;
Best Local Similarity 91.7%; Pred. No. 3.1;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
| | | | | | | | | | | | | | | | | | | | | |
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24

RESULT 17

US-09-954-987B-112
; Sequence 112, Application US/09954987B
; Patent No. 6943240
; GENERAL INFORMATION:

```
; APPLICANT: Stefan Bauer
; APPLICANT: Grayson B. Lipford
; APPLICANT: Hermann Wagner
; TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
; FILE REFERENCE: C1041/7016 (AWS)
; CURRENT APPLICATION NUMBER: US/09/954,987B
; CURRENT FILING DATE: 2001-09-17
; PRIOR APPLICATION NUMBER: US 60/233,035
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/263,657
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: US 60/291,726
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/300,210
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 112
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-112

Query Match      86.7%; Score 20.8; DB 3; Length 24;
Best Local Similarity 91.7%; Pred. No. 3.1;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
    ||||| ||||| ||||| |||||
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24

RESULT 18
US-09-954-987B-128
; Sequence 128, Application US/09954987B
; Patent No. 6943240
; GENERAL INFORMATION:
; APPLICANT: Stefan Bauer
; APPLICANT: Grayson B. Lipford
; APPLICANT: Hermann Wagner
; TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
; FILE REFERENCE: C1041/7016 (AWS)
; CURRENT APPLICATION NUMBER: US/09/954,987B
; CURRENT FILING DATE: 2001-09-17
; PRIOR APPLICATION NUMBER: US 60/233,035
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/263,657
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: US 60/291,726
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/300,210
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 128
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: modified base
; LOCATION: (2)...(2)
; OTHER INFORMATION: m5c
; FEATURE:
; NAME/KEY: modified base
; LOCATION: (5)...(5)
; OTHER INFORMATION: m5c
; FEATURE:
```

```
; NAME/KEY: modified base
; LOCATION: (13)...(13)
; OTHER INFORMATION: m5c
; FEATURE:
; NAME/KEY: modified base
; LOCATION: (21)...(21)
; OTHER INFORMATION: m5c
US-09-954-987B-128

Query Match      86.7%; Score 20.8; DB 3; Length 24;
Best Local Similarity 91.7%; Pred. No. 3.1;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
    ||||| ||||| ||||| |||||
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24

RESULT 19
US-09-672-126B-2
; Sequence 2, Application US/09672126B
; Patent No. 6949520
; GENERAL INFORMATION:
; APPLICANT: Hartmann, Gunther
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Krieg, Arthur
; TITLE OF INVENTION: Methods Related to Immunostimulatory
; FILE REFERENCE: C1039/7044
; CURRENT APPLICATION NUMBER: US/09/672,126B
; CURRENT FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/156,147
; PRIOR FILING DATE: 1999-09-29
; NUMBER OF SEQ ID NOS: 169
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
; NAME/KEY: misc feature
; LOCATION: (1)...(24)
; OTHER INFORMATION: Backbone has phosphorothioate linkages.
US-09-672-126B-2

Query Match      86.7%; Score 20.8; DB 3; Length 24;
Best Local Similarity 91.7%; Pred. No. 3.1;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
    ||||| ||||| ||||| |||||
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24

RESULT 20
US-09-672-126B-108
; Sequence 108, Application US/09672126B
; Patent No. 6949520
; GENERAL INFORMATION:
; APPLICANT: Hartmann, Gunther
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Krieg, Arthur
; TITLE OF INVENTION: Methods Related to Immunostimulatory
; FILE REFERENCE: C1039/7044
; CURRENT APPLICATION NUMBER: US/09/672,126B
; CURRENT FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/156,147
; PRIOR FILING DATE: 1999-09-29
; NUMBER OF SEQ ID NOS: 169
; SOFTWARE: FastSeq for Windows Version 3.0
```

```
; SEQ ID NO 108
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-672-126B-108

Query Match      86.7%; Score 20.8; DB 3; Length 24;
Best Local Similarity 91.7%; Pred. No. 3.1;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
    ||||| ||||| ||||| |||||
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24

RESULT 21
US-09-672-126B-147
; Sequence 147, Application US/09672126B
; Patent No. 6949520
; GENERAL INFORMATION:
; APPLICANT: Hartmann, Gunther
; APPLICANT: Bratzler, Robert L.
; TITLE OF INVENTION: Methods Related to Immunostimulatory
; TITLE OF INVENTION: Nucleic Acid-Induced Interferon
; FILE REFERENCE: C1039/7044
; CURRENT APPLICATION NUMBER: US/09/672,126B
; CURRENT FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/156,147
; PRIOR FILING DATE: 1999-09-29
; NUMBER OF SEQ ID NOS: 169
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 147
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(24)
; OTHER INFORMATION: Backbone has phosphorothioate linkages.
US-09-672-126B-147

Query Match      86.7%; Score 20.8; DB 3; Length 24;
Best Local Similarity 91.7%; Pred. No. 3.1;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
    ||||| ||||| ||||| |||||
Db 1 TCGTCGTTTCGTCGTTTCGTCGTT 24

RESULT 22
US-09-082-649B-15
; Sequence 15, Application US/09082649B
; Patent No. 6339068
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Wu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; FILE REFERENCE: C1039/7009
; CURRENT APPLICATION NUMBER: US/09/082,649B
; CURRENT FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20

; SEQ ID NO 108
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(24)
; OTHER INFORMATION: Backbone has phosphorothioate linkages.
US-09-613-749-1

; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 15
; LENGTH: 52
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-082-649B-15

Query Match      86.7%; Score 20.8; DB 3; Length 52;
Best Local Similarity 91.7%; Pred. No. 3.2;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
    ||||| ||||| ||||| |||||
Db 4 TCGTCGTTTCGTCGTTTCGTCGTT 27

RESULT 23
US-09-965-101-15
; Sequence 15, Application US/09965101
; Patent No. 6821957
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Wu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; TITLE OF INVENTION: Therapeutic Protocols
; FILE REFERENCE: C1039/7057 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/965,101
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: US 09/082,649
; PRIOR FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 84
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 15
; LENGTH: 52
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-965-101-15

Query Match      86.7%; Score 20.8; DB 3; Length 52;
Best Local Similarity 91.7%; Pred. No. 3.2;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCGTCGTTTCGTCGTTTCGTCGTT 24
    ||||| ||||| ||||| |||||
Db 4 TCGTCGTTTCGTCGTTTCGTCGTT 27

RESULT 24
US-09-337-619-123
; Sequence 123, Application US/09337619
; Patent No. 6653292
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Methods of Treating Cancer Using
; TITLE OF INVENTION: Immunostimulatory Oligonucleotides
; FILE REFERENCE: C1039/7021/HCL
; CURRENT APPLICATION NUMBER: US/09/337,619
; CURRENT FILING DATE: 1999-06-21
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
```

```
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 123
; LENGTH: 23
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-337-619-123

Query Match      82.5%; Score 19.8; DB 3; Length 23;
Best Local Similarity 91.3%; Pred. No. 8.2;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGT 23
Db 1 TCGTCGTTTCGTCGTTTCGTCGT 23

RESULT 25
US-09-769-787-322
; Sequence 322, Application US/09769787
; Patent No. 6936252
; GENERAL INFORMATION:
; APPLICANT: Microbial Technics Limited
; APPLICANT: Gilbert, Christophe FG
; APPLICANT: Hansbro, Philip M
; TITLE OF INVENTION: Proteins
; FILE REFERENCE: PWC/P21129WO
; CURRENT APPLICATION NUMBER: US/09/769,787
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: GB 9816337.1
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: US 60/125164
; PRIOR FILING DATE: 1999-03-19
; NUMBER OF SEQ ID NOS: 398
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 322
; LENGTH: 1350
; TYPE: DNA
; ORGANISM: Streptococcus pneumoniae
US-09-769-787-322

Query Match      80.0%; Score 19.2; DB 3; Length 1350;
Best Local Similarity 87.5%; Pred. No. 19;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGT 24
Db 1266 TCTTCGTTTCGTCGTTTCGTCATT 1289

RESULT 26
US-08-961-527-48
; Sequence 48, Application US/08961527
; Patent No. 6420135
; GENERAL INFORMATION:
; APPLICANT: Charles Kunsch
; TITLE OF INVENTION: Streptococcus pneumoniae Polynucleotides and Sequences
; NUMBER OF SEQUENCES: 391
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Human Genome Sciences, Inc.
; STREET: 9410 Key West Avenue
; CITY: Rockville
; STATE: Maryland
; COUNTRY: USA
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage
```

```
; COMPUTER: HP Vectra 486/33
; OPERATING SYSTEM: MSDOS version 6.2
; SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/961,527
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Brookes, A. Anders
; REGISTRATION NUMBER: 36,373
; REFERENCE/DOCKET NUMBER: PB340P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (301) 309-8504
; TELEFAX: (301) 309-8512
; INFORMATION FOR SEQ ID NO: 48:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 25002 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
US-08-961-527-48

Query Match      80.0%; Score 19.2; DB 3; Length 25002;
Best Local Similarity 87.5%; Pred. No. 22;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGT 24
Db 1335 TCTTCGTTTCGTCGTTTCGTCATT 1358

RESULT 27
US-09-270-767-27314/c
; Sequence 27314, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 27314
; LENGTH: 286
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-27314

Query Match      73.3%; Score 17.6; DB 3; Length 286;
Best Local Similarity 83.3%; Pred. No. 83;
Matches 20; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 TCGTCGTTTCGTCGTTTCGTCGT 24
Db 163 TCATCGTTTCATCGTTTAGTGT 140

RESULT 28
US-09-270-767-8121/c
; Sequence 8121, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
```

```
; SEQ ID NO 8121
; LENGTH: 785
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-8121

Query Match      73.3%; Score 17.6; DB 3; Length 785;
Best Local Similarity 83.3%; Pred. No. 88;
Matches 20; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy      1 TCGTCGTTTCGTCGTTTCGTCGTT 24
         ||||| ||||| ||||| |||||
Db      680 TCGTCCTTCGTCCTCGTCGTCCTT 657

RESULT 29
US-09-270-767-23403/c
; Sequence 23403, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 23403
; LENGTH: 785
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-23403

Query Match      73.3%; Score 17.6; DB 3; Length 785;
Best Local Similarity 83.3%; Pred. No. 88;
Matches 20; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy      1 TCGTCGTTTCGTCGTTTCGTCGTT 24
         ||||| ||||| ||||| |||||
Db      680 TCGTCCTTCGTCCTCGTCGTCCTT 657

RESULT 30
US-09-270-767-11695/c
; Sequence 11695, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11695
; LENGTH: 894
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-11695

Query Match      73.3%; Score 17.6; DB 3; Length 894;
Best Local Similarity 83.3%; Pred. No. 88;
Matches 20; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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Db      771 TCATCGTTTCATCGTTTAGTAGTT 748
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Search completed: December 30, 2005, 20:20:11
Job time : 96 secs

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